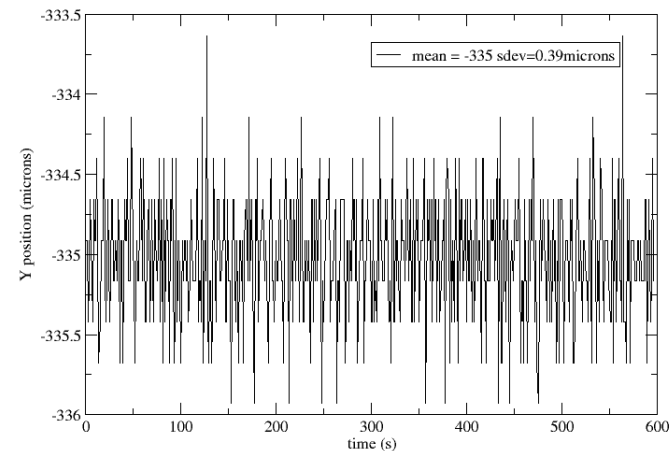
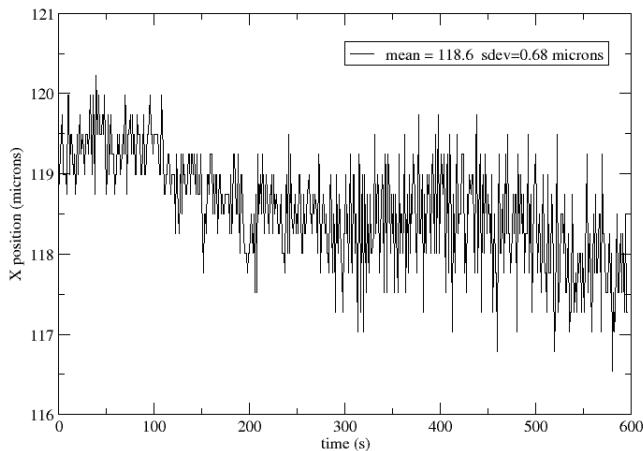


S7 operation update

Eric Dufresne, TRR group meeting, August 15, 2006

- The new Kohzu monochromator was installed in the first three weeks of June 2006. The flux it provides is reasonable, and it scans energy very well. More details in the next slide.
- EL is designing a new guillotine for passing the laser between 7ID-C and 7ID-C. It will allow to shoot the laser without any mirrors from the 7ID-E to the 7ID-C hutch improving the stability of the laser transport.
- ED plans to set up a new WXP PC to talk to the EPS system this shutdown. In July, the Interlock group helped him to add the new monochromator water flow in the Equipment Protection System.
- Harold, Dohn have done some nice clean up of the electronic lab. Harold is also cleaning up the beamline area (ID and BM) to increase our storage areas.

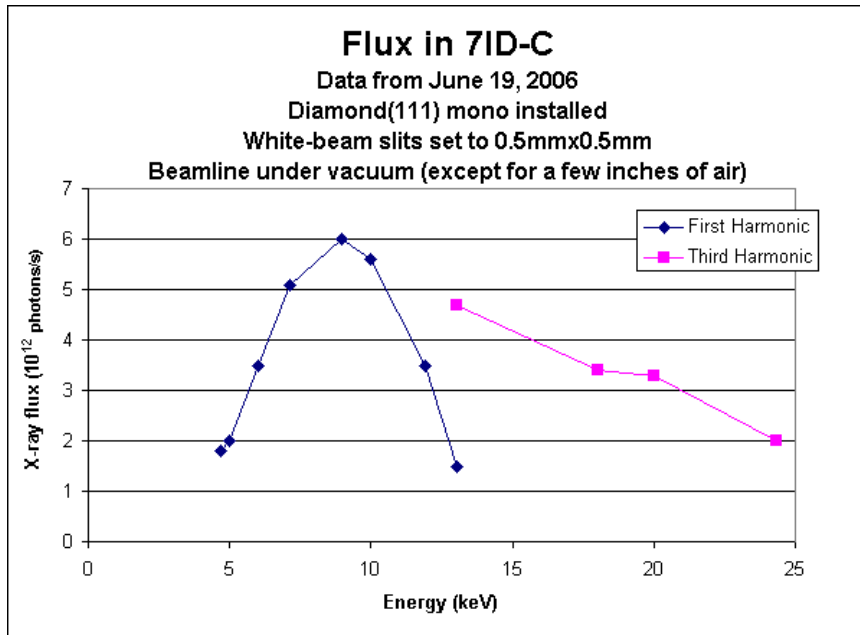
New diamond Kohzu mono performance



Short time stability of new mono is very encouraging, with sub-micron stability with vertical feedback.

Long term stability need to be studied in more details as well as beam profile.

New mono performance (cont.)

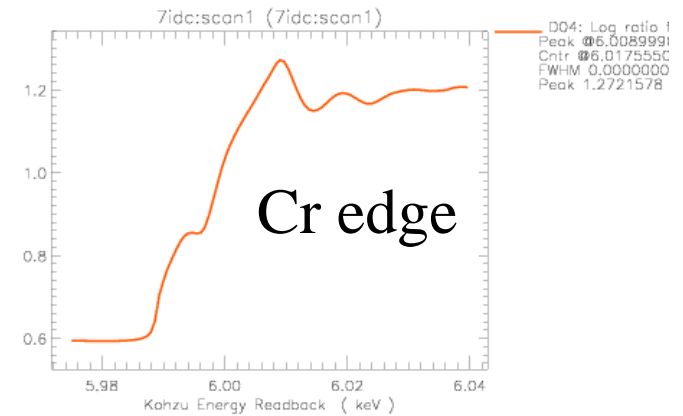


Range: 4.68-23.9 keV

Cr and Mo edge position were
Correct within 1 eV (see RHS)

data file: 7idc_0009.mda

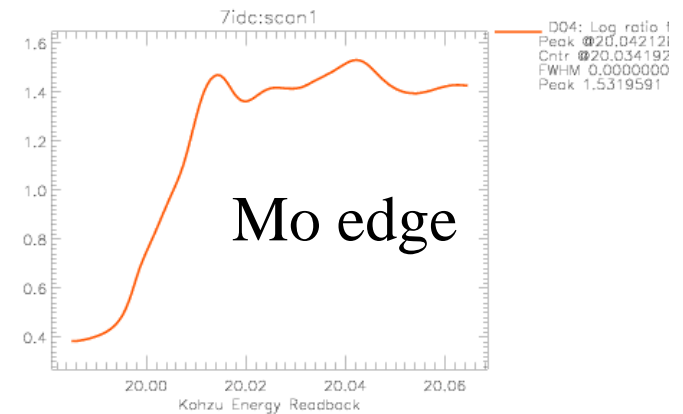
1D SCAN # : 1



Jun 19, 2006 05:19:52.973528432
comment:

data file: 7idc_0010.mda

1D SCAN # : 1



Jun 19, 2006 05:30:57.923501834
comment:

7ID R&D

- EL attended SRI06, giving two talks and presenting N posters. Several papers from the sector's staff and users (9) will appear in the proceedings of SRI 2006.
- ED, JW and BA attended the SRMS 5 conference in Chicago.
- The sector has a new APL by the group of Paul Evans on a piezo electric Bragg switch. See www.mhaff.aps.anl.gov for link. Science Magazine noticed the paper.
- The group of Linda Young from ANL Chemistry has a new PRL to appear in August.
- Before completing her stay in early Aug., our summer student Amanda Fricke reported on her experiments in early Aug. She developed an x-ray metrology technique to understand the focusing of our long 200mmx200mm KB mirror. Her presentation will be on the web shortly.
- 7ID will have a few ps x-ray source as a fast track implementation of the Zholentz scheme by the fall run of 2007. This was announced by G. Srajer in the Aug. 10-11 Upgrade meeting.